POWER ASSEMBLY
MODEL
25751
INSTRUCTION MANUAL

ORDER NO.	REV. NO.
M493750	1

AN ISO 9001 COMPANY

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THE POWER SUPPLIER™
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INSTRUCTION MANUAL

POWER ASSEMBLY
MODEL 25751

FOUR OUTPUT POWER ASSEMBLY

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IMPORTANT NOTES:

1) This manual is valid for the following Model and associated serial numbers:

MODEL	SERIAL NO.	REV. NO.

2) A Change Page may be included at the end of the manual. All applicable changes and revision number changes are documented with reference to the equipment serial numbers. Before using this Instruction Manual, check your equipment serial number to identify your model. If in doubt, contact your nearest Kepco Representative, or the Kepco Documentation Office in New York, (718) 461-7000, requesting the correct revision for your particular model and serial number.

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LIST OF DOCUMENTS INCLUDED IN APPENDIX

FAW 100 Watts Series Power Supply Instruction Manual
DMS 2X9 Accessory Power Supply Instruction Manual

KEPCO POWER ASSEMBLY SYSTEM 25751

1 Basic Equipment

Power Assembly System Model 25751 consists of the following items (see List of Figures):

One FAW 5-20K Power Supplies (100 Watts)
Two FAW 12-8.3K Power Supplies (100 Watts)
Two FAW 15-6.6K Power Supplies (100 Watts)
One Custom Chassis (3 1/2"H x 19"W x 16"D)
One Custom Front Panel Assembly, P/N 131-6184, consisting of:
Ckt. Brk., 15 Amps., single pole, pilot, 4 LEDs, 4 Adj. Trimmers, 4 Test Point Pairs, DVM, 4 Positions Switch
One Custom Rear Panel Assembly, P/N 300-0341, consisting of:
AC Inlet, two 15-term. barrier strip, 20 Amp./term.
One DMS 2x9 Accessory Power Supply
One AC Distribution Block, 12 term.
One 4 position Terminal Strip
One Current Limiting Resistor, 35K, 5%, 1w
One 99K/1K Resistor Network (PN 234-0036)
One 900K, 0.1%, 1/2W

2 Electrical Specifications

Input Power: Nominal 115 Vac (100-130 Vac), 47 to 63 Hz

Output Power: PS1 = +5 Volts at 20 Amps
PS2 = +12 Volts at 8.3 Amps
PS3 = –12 Volts at 8.3 Amps
PS4 = +28 Volts at 6.6 Amps

3 Mechanical Layout

See Figures 1, 2.

4 Documentation

Electrical and Mechanical Specifications are documented in the following:

FAW 100 Watts Series Power Supply Instruction Manual
DMS 2x9 Accessory Power Supply Instruction Manual
Power Assembly System 25751 Instruction Manual

5 System Configuration

Power Assembly System 25751 contains five power supplies, designated PS1 through PS4A/PS4B (series connected) (see Figures 1,2,3).

AC input power to Power Supplies PS1 through PS4B is applied via AC Inlet J1, Circuit Breaker CB1 and AC Distribution Block TB3. When Circuit Breaker CB1 is closed, the integral "Power On" neon indicator is lit.

Each of the four DC Outputs associated with Power Assembly System 25751 has a pair of Test Points, designated TP1 through TP4, one "Power OK" pilot indicator, designated DS2 through DS5 and one voltage trimmer R2A through R5A which are contained Front Panel Assembly. R2C through R5C are current limiting resistors for LEDs DS2 through DS5.

Accessory Power Supply Model DMS 2x9 provides operating power for Meter M1. The four "voltage sense" signals from PS1 through PS4A/PS4B are applied to Voltmeter M1 via Voltage Divider RN1.

Power Assembly System 25751 output connections are made at DC Output Barrier Strips TB1 and TB2 contained on Rear Panel Assembly.

6 Load Connections For Remote Error Sensing.

NOTE: To improve output load effect at remote loads, Remote Error Sensing SHOULD BE USED. For remote error sensing, the links between the Output and Sense Terminals at the DC Output Barrier Strips must be removed and the remote sensing terminals MUST be connected to their respective output "load" terminals at the load.

Power Assembly system 25751 is shipped with error sensing enabled, links in place, at Terminal Barrier Strips TB1 and TB2. Power Assembly System 25751 can operate with error sensing external to the output terminals (i.e., at the load). Error sensing at the load should be made with a twisted pair of wires to reduce noise. The sensing wires must be connected as follows: (+) Sense Terminal to load (+) Terminal, and (-) Sense Terminal to load (-) Terminal.

7 Cooling

The components contained in the Power Supply System 25751 are maintained within their operating temperature range by means of vents in the rear panel.

Power Supply System 25751 MUST BE KEPT CLEAR FROM OBSTRUCTIONS TO ENSURE PROPER AIR CIRCULATION. If the equipment is installed in confined spaces, care must be taken to ensure that the ambient temperature (the temperature immediately surrounding the Power System 25751) does not rise above the limits specified in the associated power supply manual. Enough space must be provided around the rack to allow the hot air to exhaust from the equipment inside the equipment rack.

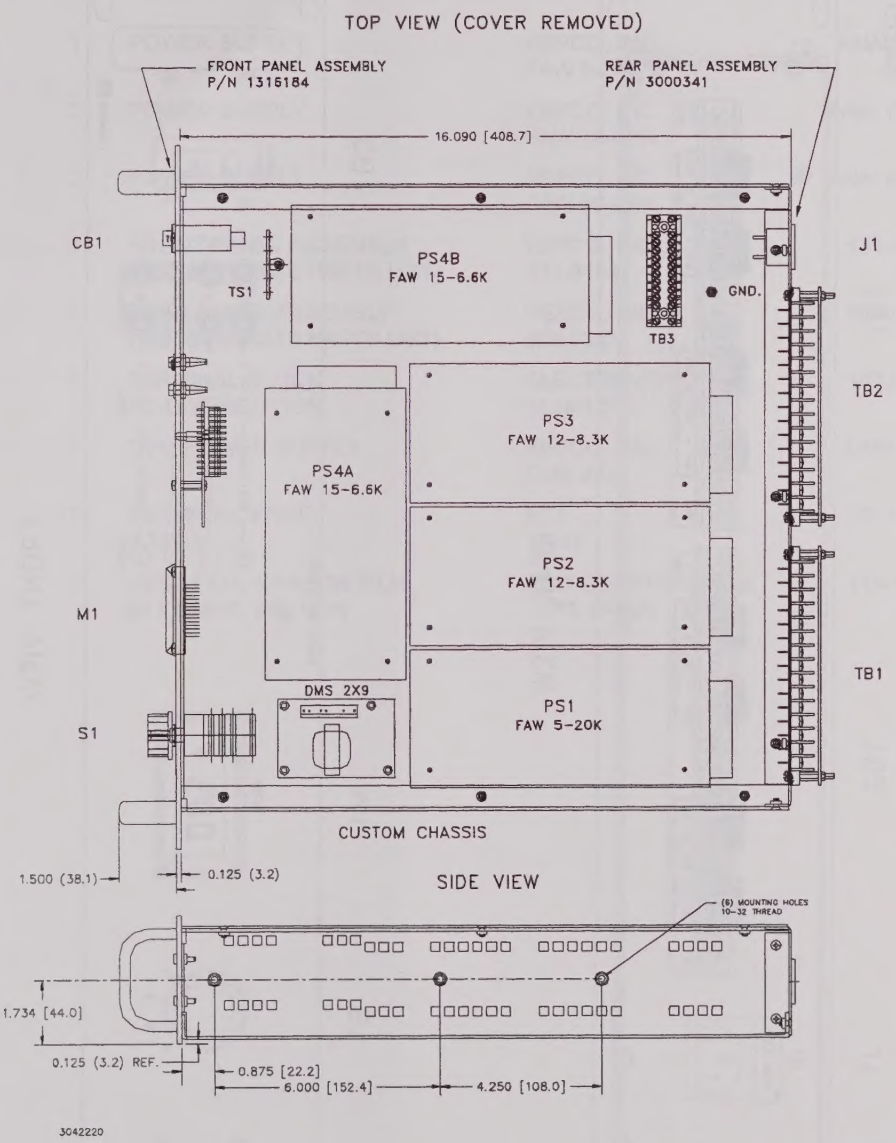
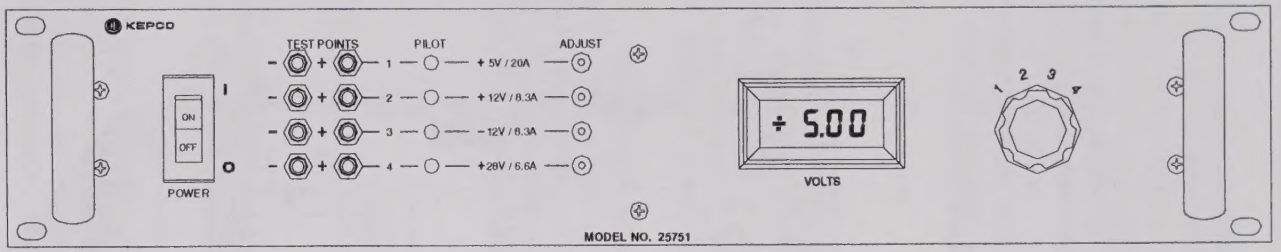


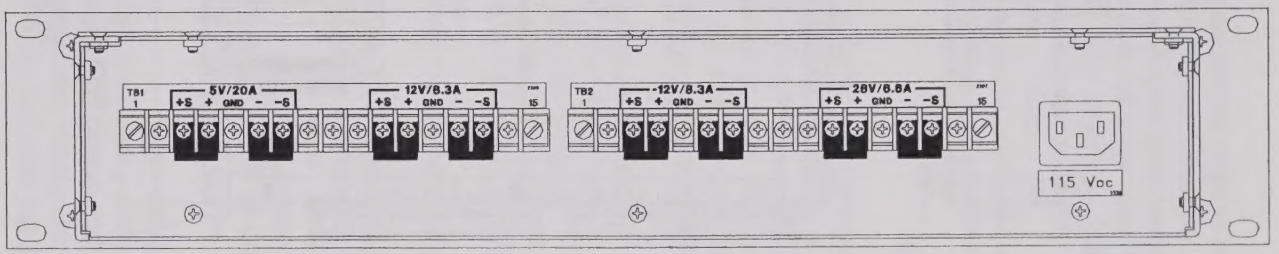
FIGURE 1 MODEL 25751 LAYOUT, TOP VIEW

FRONT VIEW



CB1 M1 S1

REAR VIEW



TB1 TB2 J1

30422211

FIGURE 2 MODEL 25751 LAYOUT, FRONT AND REAR VIEW

KEPCO REPLACEMENT PARTS LIST

MODEL 25751 **CODE: 25751.XP**

REFERENCE DESIGNATOR	QTY.	DESCRIPTION	MFRS. NAME & PART NO. (SEE BOTTOM NOTE)	KEPCO PART NO.	REC. SPARE PART QTY.
PS1	1	POWER SUPPLY	KEPCO, INC. FAW 5-20K	FAW 5-20K	1
PS2, PS3	2	POWER SUPPLY	KEPCO, INC. FAW 12-8.3K	FAW 12-8.3K	1
PS4A, PS4B	2	POWER SUPPLY	KEPCO, INC. FAW 15-6.6K	FAW 15-6.6K	1
N.A.	1	FRONT PANEL ASSEMBLY (SEE SEPARATE PARTS LIST)	KEPCO, INC. 131-6184	131-6184	1
N.A.	1	REAR PANEL ASSEMBLY (SEE SEPARATE PARTS LIST)	KEPCO, INC. 300-0341	300-0341	1
TB3	1	TERMINAL BLOCK AC DISTRIBUTION	ELECTROVERT KL16/12PA	167-0995	1
N.A.	1	DVM POWER SUPPLY	KEPCO, INC. DMS 2X9	DMS 2X9	1
TS1	1	TERMINAL STRIP 4 TERM.	NTT 11311	167-0554	1
RS1	1	RES., FXD., CARBON FILM 33 KOHMS, 5%, 1/2W	RCD COMPPONENTS TYPE CF50S	115-1127	1

NOTE: REPLACEMENT PARTS MAY BE ORDERED FROM KEPCO, INC. ORDERS SHOULD INCLUDE KEPCO PART NUMBER AND DESCRIPTION.

PLEASE NOTE: THE MANUFACTURER'S NAME AND PART NUMBER LISTED FOR EACH ITEM ON REPLACEMENT PARTS LISTS REPRESENTS AT LEAST ONE SOURCE FOR THAT ITEM AND IS LISTED SOLELY FOR THE CONVENIENCE OF KEPCO EQUIPMENT OWNERS IN OBTAINING REPLACEMENT PARTS LOCALLY. WE RESERVE THE RIGHT TO USE EQUIVALENT ITEMS FROM ALTERNATE SOURCES. KEPCO, INC.

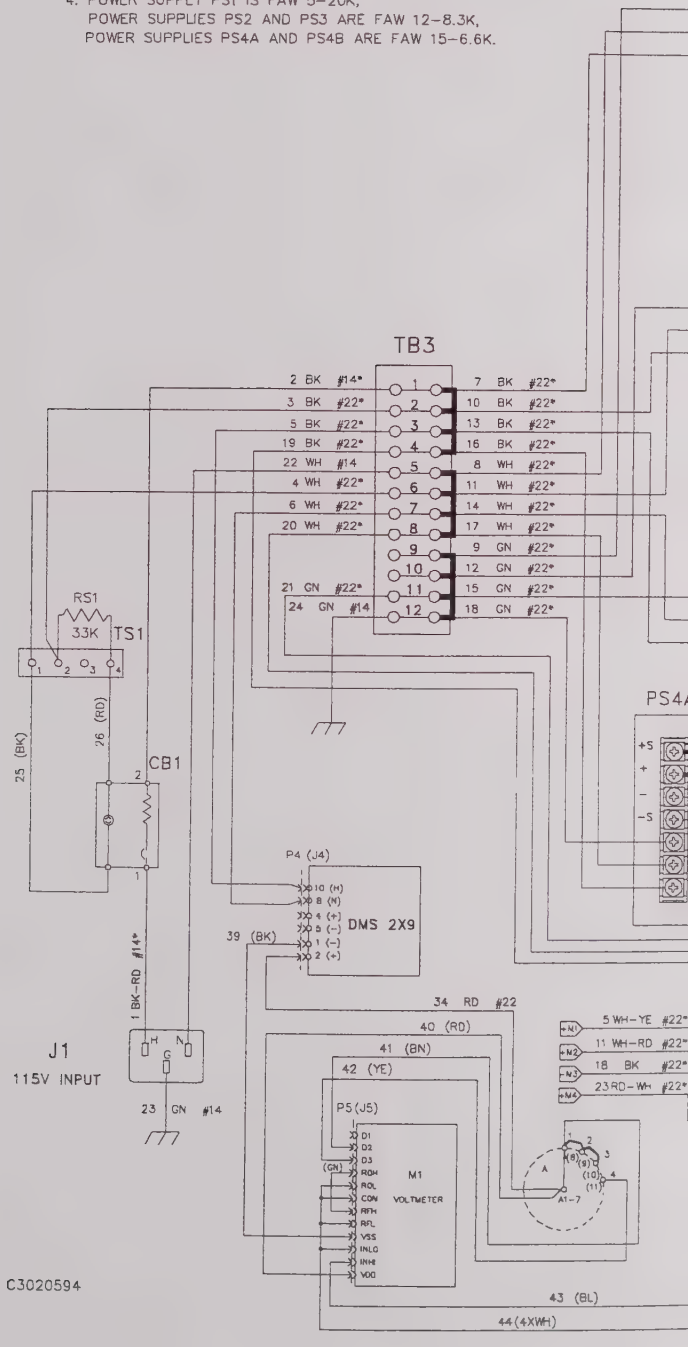
KEPCO REPLACEMENT PARTS LIST

MODEL 25751 **CODE: 25751.XP**

REFERENCE DESIGNATOR	QTY.	DESCRIPTION	MFRS. NAME & PART NO. (SEE BOTTOM NOTE)	KEPCO PART NO.	REC. SPARE PART QTY.
		FRONT PANEL ASSY. (P/N 131-6184)			
CB1	1	CIRCUIT BREAKER SINGLE POLE, 15 AMPS, 125V	AIRPAX R11-62F-15.0A-B121-EV.00	127-0384	1
A1	1	4 LEDS, TRIMMERS, TEST POINTS PCB ASSEMBLY (SEE SEPARATE PARTS LIST)	KEPCO, INC. 236-2099	236-2099	1
M1	1	DIGITAL METER	KEPCO, INC. 135-0556	135-0556	1
S1	1	ROTARY SWITCH 2-5D 4 POLE, 4 POS., 125V, 0.5A	STACKPOLE COMP. TYPE 100	127-0381	1
N.A.	1	CABLE ASSEMBLY	KEPCO, INC. 118-0632	118-0632	1
RN1	1	RES., MATCHED PAIR, 99K/1K	DALE ELECTRONICS PTF65 & 56	234-0036	1
R1	1	RES., FXD. PRECISION 900K, 0.1%, 1/4W	KEPCO, INC. 115-2590	115-2590	1
		REAR PANEL ASSY. (P/N 300-0341)			
J1	1	CONNECTOR, RECEPTACLE AC INPUT, 3 PRONG	SCHURTER 6100-4115	143-0616	1
TB1, 2	2	BARRIER STRIP (15 TERM., 20 AMP./TERM.)	MAGNUM A2193-15-07-MP	167-1023	1
		A1, PCB ASSY. (PN 236-2099)			
R2A	1	RES., TRIMPOT 200 OHMS, 5%, 1W	BOURNS INC. TYPE 3252W-1-201	115-2734	1
R3A THRU R5A	3	RES., TRIMPOT 1 KOHMS, 10%, 1W	BOURNS INC. TYPE 3252W-1-102	115-2725	1
R2C	1	RES., FXD., CARBON FILM 150 OHMS, 5%, 1/2W	RCD COMPONENTS, INC TYPE CF50S	115-0543	1
R3C, R4C	2	RES., FXD., MOLDED 560 OHMS, 5%, 1W	IRC/SHALLCROSS CF-1/2	115-0888	1
R5C	1	RES., FXD., CARBON FILM 1.5K, 5%, 1W	RCD COMPONENTS, INC TYPE CF100S	115-0664	1
R2B THRU R5B	4	JUMPER, MOLDED	SEMICON DS1	172-0298	1
DS2 THRU DS5	4	LED, GREEN	HEWLETT PACKARD HLMP 3507	153-0094	1

NOTE: REPLACEMENT PARTS MAY BE ORDERED FROM KEPCO, INC. ORDERS SHOULD INCLUDE KEPCO PART NUMBER AND DESCRIPTION.
PLEASE NOTE. THE MANUFACTURER'S NAME AND PART NUMBER LISTED FOR EACH ITEM ON REPLACEMENT PARTS LISTS REPRESENTS AT LEAST ONE SOURCE FOR THAT ITEM AND IS LISTED SOLELY FOR THE CONVENIENCE OF KEPCO EQUIPMENT OWNERS IN OBTAINING REPLACEMENT PARTS LOCALLY. WE RESERVE THE RIGHT TO USE EQUIVALENT ITEMS FROM ALTERNATE SOURCES. KEPCO, INC.

NOTES:
1. REFERENCE DESIGNATIONS IN PARENTHESIS ARE FOR COMPONENT ONLY.
2. WIRES MARKED "*" ARE FROM TWISTED PAIRS AND TRIPLETS.
3. INPUT VOLTAGE: 115 Vac.
4. POWER SUPPLY PS1 IS FAW 5–20K,
   POWER SUPPLIES PS2 AND PS3 ARE FAW 12–8.3K,
   POWER SUPPLIES PS4A AND PS4B ARE FAW 15–6.6K.



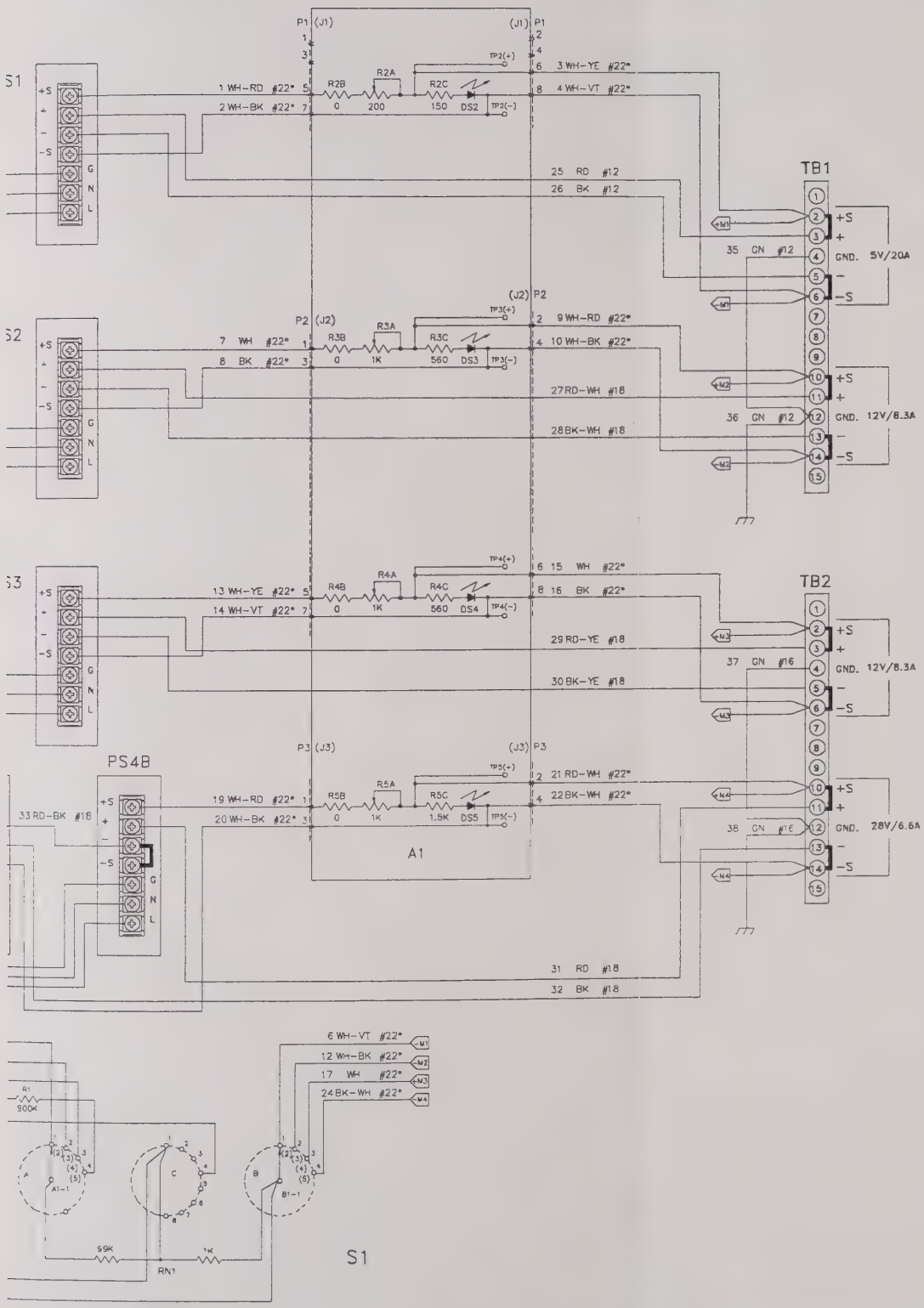


FIGURE 3. MODEL 25751 SCHEMATIC DIAGRAM

POWER SUPPLIES
FAW 100W SERIES

INSTRUCTION MANUAL

KEPCO An ISO 9001 Company.

FAW

KEPCO SINGLE OUTPUT 100 WATT HIGH FREQUENCY SWITCHING POWER SUPPLIES CE

I — INTRODUCTION

The Kepco FAW 100 Watt Series low profile high frequency switching power supplies employ forward conversion and operate with a 78% efficiency with either a-c or d-c input. A resistor and thyristor soft-start circuit limits start-up surge. Surface mount technology permits efficient component layout for minimum mounting space. Six models may be selected for outputs of 5, 12, 15, 24, 28, or 48V. "POWER OK" logic and a green "POWER OK" LED are provided. A steel cover (Model CA 27) is available as an option. Output voltage may be adjusted with a trimmer accessible near the input-output terminal strip (R65, see Figure 4, View "A"). When the input is cut off, the output is maintained for 15 milliseconds minimum. If the power supply shuts down, it is then necessary to wait 90 seconds minimum (120V a-c input) or 120 seconds minimum (240V a-c input) before reconnecting the a-c input power to turn on the unit again. EMI filtering meets FCC Class B (100 to120 Volts) rating and VDE 0871 Class B (220 to 240 Volts) rating. This page contains specifications for each model of the FAW 100 Watt Series. Environmental specifications for each model are the same.

II — SPECIFICATIONS

The following specifications apply to FAW 100 Watt Series models. Other FAW Series models are also available; consult your Kepco representative for their specifications.

TABLE 1. OUTPUT RATINGS AND SPECIFICATIONS, FAW 100W SERIES

MODEL		FAW 5-20K	FAW 12-8.3K	FAW 15-6.6K	FAW 24-4.2K	FAW28-3.5K	FAW 48-2K
OUTPUT VOLTS, d-c (NOMINAL)		5V	12V	15V	24V	28V	48V
ADJUSTMENT RANGE		4.5 - 5.5V	10.8 - 13.2V	13.5 - 16.5V	21.6 - 26.4V	25.2 - 30.8V	38.4 - 52.8V
OUTPUT CURRENT (NOMINAL)(1)		20A	8.3A	6.6A	4.2A	3.5A	2.0A
OUTPUT POWER (MAXIMUM)(2)		100W	99.6W	99W	100.8W	98W	96W
RIPPLE AND NOISE (mV p-p) 0-50°C 10-100% LOAD	source (typ)	10	15	15	20	20	20
	source (max)	15	30	40	40	40	40
	switching (typ)	30	35	40	50	60	80
	switching (max)	65	70	80	110	140	220
	spike noise (d-c—50MHz)	<120	<190	<220	<310	<330	<530
OVERVOLTAGE SETTING (25°C, NOM. INPUT)		6.0-6.9V	13.7-15.7V	17.0-19.0V	27.0-30.5V	32.0-35.0	53.5-60.0
OVERCURRENT SETTING (25°C, NOM. INPUT) Rectangular type characteristic		21.0 - 24.0A	8.7 - 10.0A	7.0 - 8.0A	4.4 - 5.2A	3.7 - 4.2A	2.1 - 2.4A

(1) Derates same as Ouptut Power.
(2) See power derating curve, Figure 1.

INPUT:

Voltage: 120V a-c/240V a-c nominal; Range 85-264V a-c; 105-370V d-c (polarity insensitive).
Frequency: Nominal 50-60 Hz; Range 47-440Hz (at 440Hz leakage current exceeds UL/VDE safety leakage standards).
Current (nominal output at rated load): @120V a-c rms: 2.0A typ., 2.4A max; @240V a-c rms: 1.0A typ., 1.6A max.
Initial Turn-on Surge: (one-half of first input cycle): @120V a-c rms, 25A max; @240V a-c rms, 50A max. When the a-c input power is removed, the soft start circuit requires 30 seconds recovery time before the a-c input power is reconnected.
Brownout Voltage: 80V a-c, 97V d-c.
Switching Frequency: 150KHz typical, nominal load.

STABILIZATION:

Source Effect: Range 85-132V a-c or 170-264V a-c, 1.0% typ.; 2.0% max.
Load Effect: Range 10%-100% load, 1.0% typ.; 2.0% max.
Temperature Effect: Range 0° to 50°C, 1.0% typ.; 2.0% max.
Combined Effect: 2.0% typ.; 4.0% max. (includes source, load, and temperature effects).
Time Effect: 0.1% typ.; 0.5% max. (1/2 hr-8 hr at 25°C).

RECOVERY CHARACTERISTICS: A step load change from 50% to 100% produces less than ±4% output excursion. Recovery occurs to within ±1% of the original setting in <1 ms (t_r or t_f equal to or greater than 50µsec at load change).

START-UP TIME: 200 ms. maximum.

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START-UP TIME: 200 ms. maximum.

HOLD-UP TIME: 20 ms. typ. (120V a-c), 15 ms. min (100V a-c).

DIELECTRIC STRENGTH:
Between input and output: 2KV a-c for one minute.
Between input and output with Y-capacitor removed: 3.0KV a-c for one minute.
Between input and case (ground): 2.0KV a-c for one minute.

INSULATION RESISTANCE: Between input and ground, output and ground, input and output; 100 Megohms min. (500V d-c).

LEAKAGE CURRENT
(UL method, 120V a-c, 50-60Hz, single terminal connection): 0.5 mA maximum.
(VDE method, 240V a-c, two terminal connection): 0.75 mA maximum.

SAFETY: UL 1950 recognized (ambient temperature 40° C maximum); CSA E.B. 1402C Level 3 Certified (FAW 48-2K Level 1 Certified); IEC 950 Approved by TÜV Rheinland (based on EN 60950/09.87, ambient temperature 50° C max.) - cover removed.

(+) SENSE, (–) SENSE: See Figure 3. These terminals are provided to compensate for voltage drops in the load connecting wires. The Sense terminals must be connected to their respective (+) and (–) output terminals, either at the load or at the Power Supply output terminals. The connection ensures the most accurate error tracking. Error compensation in the connecting wires is up to 0.25 Volts for the FAW 5-20K model, and up to 0.4 Volts for all other models.

"POWER OK" SIGNAL OUTPUT: The unit supplies a "POWER OK" logic 1 signal at CP51 (see Figure 2 and Figure 4, View "A").

CONNECTOR TYPES: Refer to the Mechanical Outline Drawing. The mating connector for CP51 is a Panduit, P/N CT10F22-2: Cover, P/N TC100F-2.

CONNECTOR KIT: Kepco furnishes an optional connector kit with the specified connector listed above. The kit may be ordered under Kepco Model Kit P/N 518-0029. The connector is provided with 1 meter length leads for trimming to desired lengths.

EMI: Designed to meet FCC Class B (100-120V a-c) and VDE 0871 Class B (220-240V a-c).

VIBRATION: (non-operating, one hour on each one of the three axes):
5-10 Hz, 10 mm amplitude.
10-55 Hz, 2g acceleration.

SHOCK: (non-operating, one-half sinusoidal pulse, three shocks to each axis):
Acceleration: 20g
Duration: 11ms ±5ms

OPERATING TEMPERATURE: 0 - 71° C (see Figure 1).

STORAGE TEMPERATURE: –40°C to +75°C.

OPERATING AND STORAGE RELATIVE HUMIDITY: up to 95% (wet bulb temp. <35°C non-condensing).

MOUNTING SCREW: No. 4-40 UNC Thread (see Figure 4)

MAXIMUM SCREW PENETRATION: 0.197 in. (5mm) max.

WEIGHT: 2.20 lbs. (1.0Kg max.), 3.31 lbs. (1.5 Kg max. with cover).

DIMENSIONS: 3.74 in. (95mm) H x 1.38 in. (35mm) W x 7.87 in. (200 mm) L

CASE DIMENSIONS: 3.74 in. (95mm) H x 1.50 in. (38mm) W x 7.87 in. (200 mm) L

FRAME MATERIAL: Aluminum

FUSE: Quick acting 5.0A, 250V; (5.2 x 20mm), San-O P/N EQ5.0A; Kepco P/N 541-0112.

WARRANTY: 1 year.

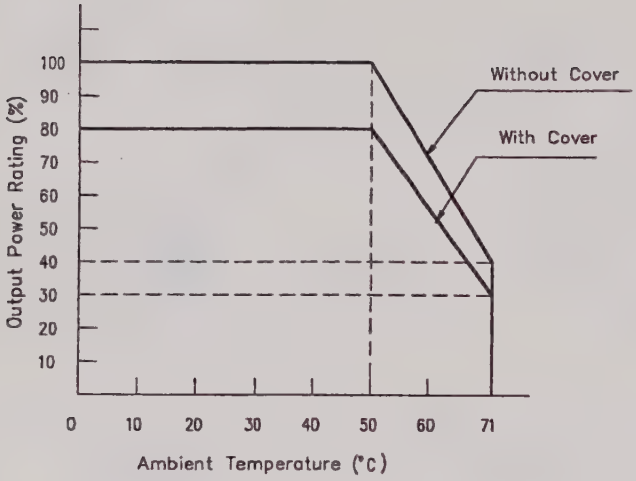
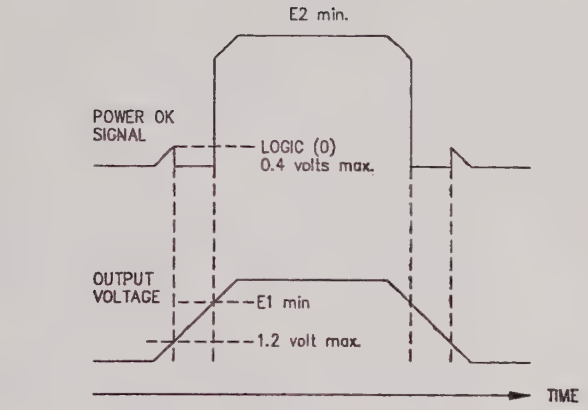
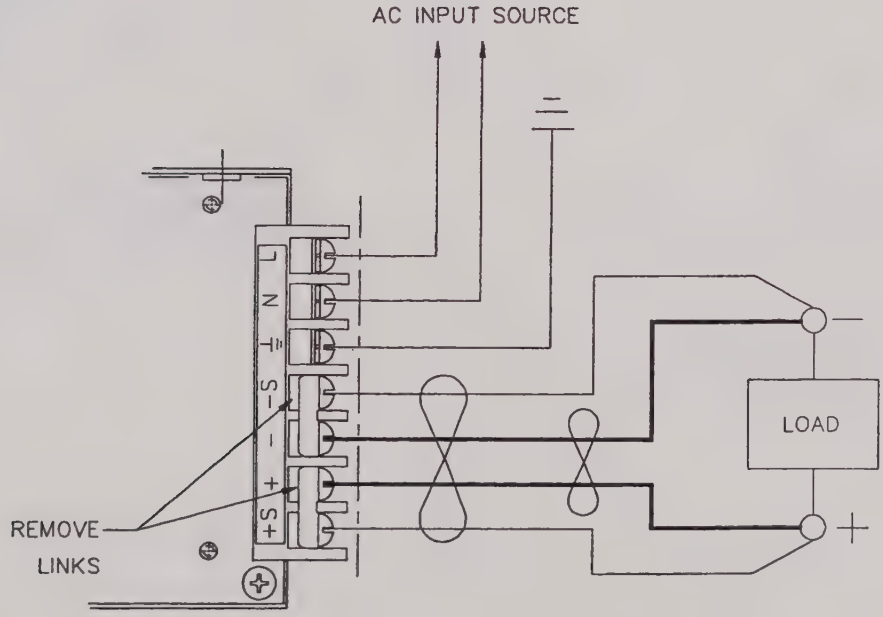


FIGURE 1. % OUTPUT POWER RATING VS. AMBIENT TEMPERATURE

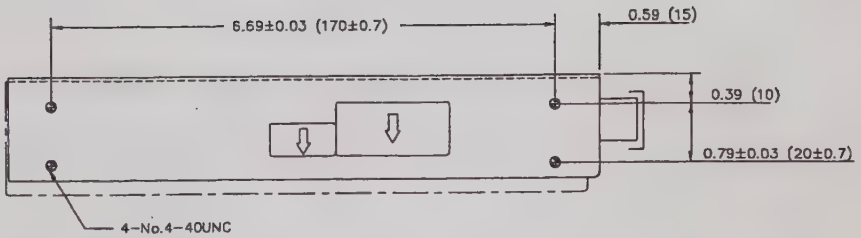


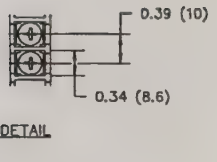
		5V model	12V model	15V model	24V model	28V model	48V model
E1 (min)		4.5V	9.5V	12V	19V	22V	38V
E2	(min)	2.5V	5V	6V	9V	11V	19V
	(max)	< OUTPUT VOLTAGE					

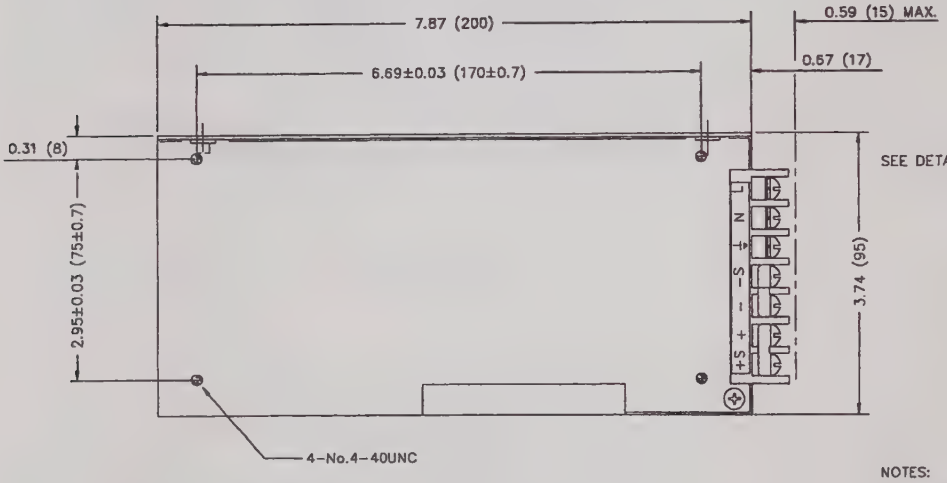
FIGURE 2. POWER OK" SIGNAL RELATED TO OUTPUT

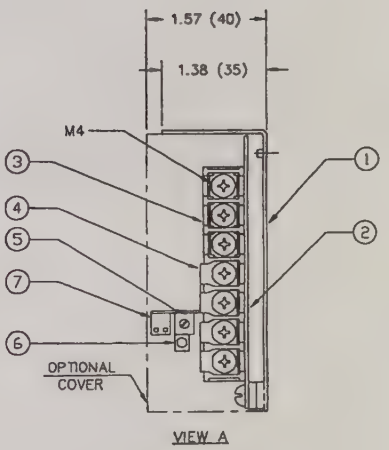


LOAD CONNECTIONS WITH ERROR SENSING









NO.	ITEM	QTY.	MATERIAL DESCRIPTION
7	POWER OK LOGIC, CP51	1	
6	POWER OK, CR55	1	
5	VOLT. Adj., R65	1	
4	SHORTING LINKS	2	
3	TERMINAL BLOCK	1	
2	P.C.B.	1	
1	FRAME	1	ALUMINUM

NOTES:

1. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS, ALL OTHERS ARE IN INCHES.
2. MAXIMUM PENETRATION OF SCREWS FOR No.4-40UNC MOUNTING HOLES NOT MORE THAN 0.20in (5mm) FROM FRAME SURFACE.
3. ±0.039in (±1.0mm) TOLERANCE UNLESS OTHERWISE SPECIFI

MECHANICAL OUTLINE DRAWING

DMS 2X9

INSTRUCTION MANUAL

KEPCO POWER ASSEMBLY COMPONENTS

An ISO 9001 Company.

DMS

ACCESSORY DUAL POWER SUPPLY

Model DMS 2X9

Please record the equipment nameplate serial number in the space provided.

Serial No.....

DESCRIPTION

This miniature auxiliary dual voltage d-c power supply was designed to provide the operating potentials for liquid crystal panel meters used in Kepco's Power Assembly Design Kit. The power supply may be operated from either 115 or 230V a-c lines (selectable) and may be mounted in any position by means of four threaded spacers. The Schematic diagram is shown in FIG. 2, while the Component Location is illustrated in FIG. 3.

SPECIFICATIONS:

AC INPUT VOLTAGE: 90 to 130V a-c or 180 to 260V a-c, switch selectable.

SOURCE FREQUENCY: 50 — 500 Hz.

DC OUTPUT: 9.6 to 10.6V d-c @ 0.3 to 0.5 mA at 120V a-c input.

AMBIENT OPERATING TEMPERATURE: −20 °C to +71 °C.

STORAGE TEMPERATURE: −40 °C to +85 °C.

DIMENSIONS: See Mechanical Outline, FIG. 1.

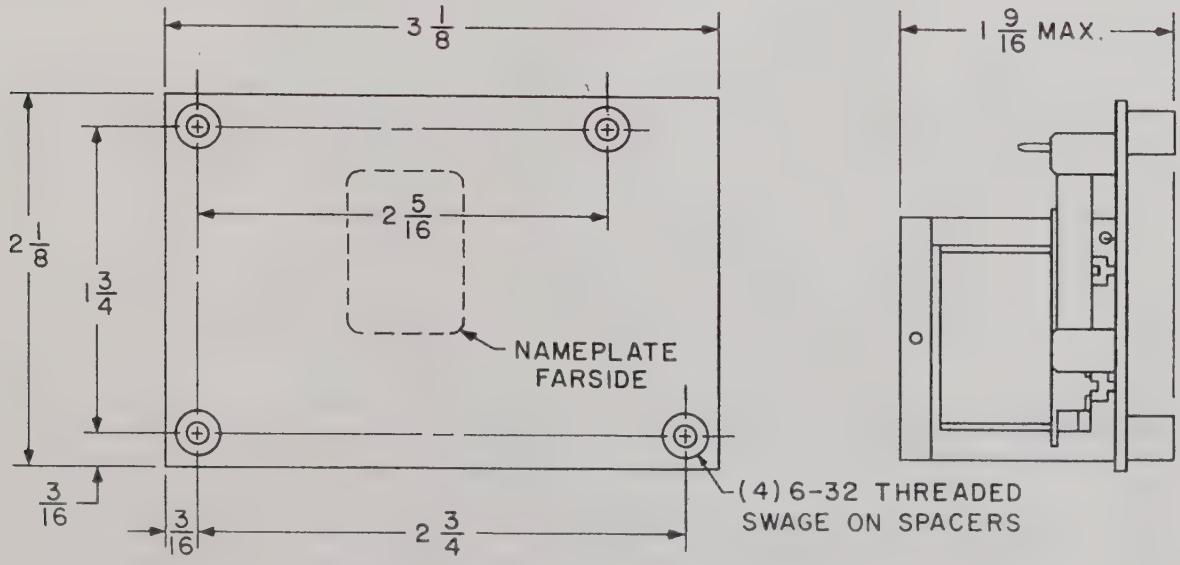


FIG. 1 MECHANICAL OUTLINE DRAWING, MODEL DMS 2x9

NOTE: Tolerances ± 1/32

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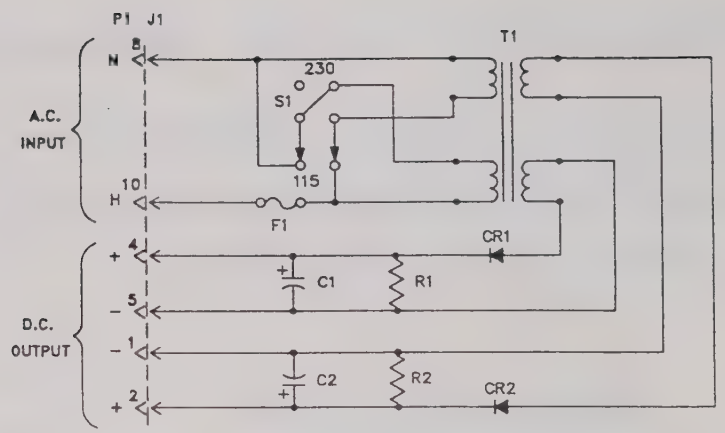

FIGURE 2 SCHEMATIC DIAGRAM, MODEL DMS 2X9

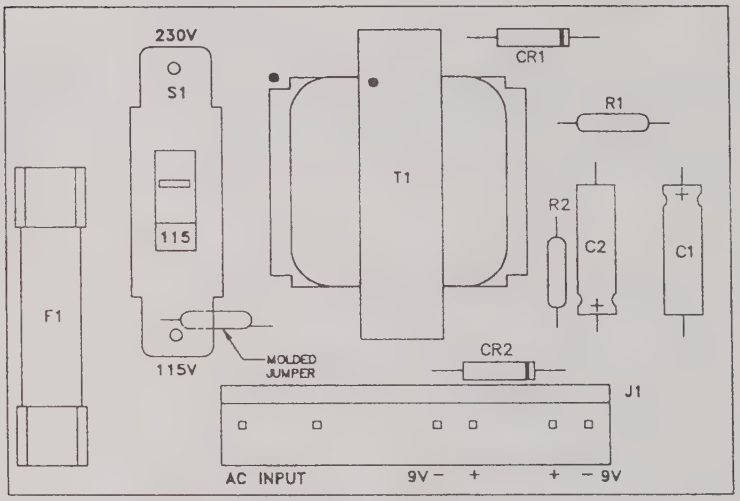

FIGURE 3 COMPONENT LOCATION, MODEL DMS 2X9

MODEL DMS 2X9 **REPLACEMENT PARTS LIST** **Code 06-0493**

REFERENCE DESIGNATION	QTY	DESCRIPTION	MFRS. NAME & PARTS NO. SEE BOTTOM NOTE	KEPCO PART NO.	REC. SPARE PART QTY.
C1,2	2	Cap., Elect., Ax. Leads 220µF, ±20%, 16V	United Chemi-Con Type KMC	117-0677	1
CR1,2	2	Rect., Diode, Ax. Leads 400V (V_{RM}), 1.5A @ 50°C T_A	Semicon SI-4	124-0028	1
R1,2	2	Res., Fxd., Molded 100K ohm, 10%, 1/4W	Allen Bradley CB1041	115-2641	1
S1	1	Slide Switch 115V, 3A/250V, 1.5A	Switchcraft 46206LFE	127-0294	0
J1	1	Connector, Male	Kepco, Inc. 142-0281	142-0281	0
P1	1	Connector, Female	Kepco, Inc. 143-0394	143-0344	1
F1	1	Fuse Dual Element, 1/4 x 1 1/4" 0.031A, 250V	Bussman Type MDL	141-0019	5
T1	1	Transformer, Power	Signal DPC12-100	175-0441	1
NA	1	Dust Cover for P1	Kepco, Inc. 189-0500	189-0500	1

NOTE: REPLACEMENT PARTS MAY BE ORDERED FROM KEPCO, INC. ORDERS SHOULD INCLUDE KEPCO PART NUMBER AND DESCRIPTION.

PLEASE NOTE: THE MANUFACTURER'S NAME AND PART NUMBER LISTED FOR EACH ITEM ON REPLACEMENT PARTS LISTS REPRESENTS AT LEAST ONE SOURCE FOR THAT ITEM AND IS LISTED SOLELY FOR THE CONVENIENCE OF KEPCO EQUIPMENT OWNERS IN OBTAINING REPLACEMENT PARTS LOCALLY. WE RESERVE THE RIGHT TO USE EQUIVALENT ITEMS FROM ALTERNATE SOURCES. KEPCO, INC.

You must register your product to comply with the terms of the warranty. Either fill out the form below and mail or fax to Kepco, or for rapid on-line registration go to:

http://www.kepcopower.com/warranty.htm

PRODUCT PURCHASED:

Model Number)_____

Serial Number_____

PURCHASE INFORMATION:

Date Purchased:_____

Date Received:_____

REQUEST ADDITIONAL INFORMATION

❑ Send complete Catalog

❑ Have Sales Engineer Call

Contact via: ❑ E-Mail ❑ Telephone ❑ Fax ❑ S-mail

REGISTER TO:

Registered by:_____

Company Name:_____

Street: _____

City:_____

State:_____

Country:_____

Zip:_____

E-mail: _____

FAX:_____

Phone: _____

WHAT INFLUENCED YOUR CHOICE OF THIS POWER SUPPLY?

❑ Previous Experience (which Kepco Models do you have?)

_____

_____

_____

❑ Magazines (which ones?)_____

_____

❑ Trade Shows (which ones?)_____

❑ Directory?_____

❑ Kepco Catalog or Brochure?_____

❑ Sales Representative?

❑ Web Site

❑ Other (please explain):_____

What products would you like to see Kepco make?

_____

_____

_____

CUT HERE

Kepco 5 Year Warranty

This is to certify that we, KEPCO, INC., (hereinafter called "Company"), Flushing, NY 11352 USA, warrants for a period of FIVE YEARS, this instrument known as:

MODEL: _____

SERIAL NO. _____

The Company's products are warranted for a period of five years from date of delivery to be free from defects in materials and workmanship and to conform to the specifications furnished or approved by the Company. Liability under this warranty shall be limited to the repair or replacement of any defective product at Company's option.

If any defect within this warranty appears within the warranty period, the Purchaser shall promptly notify the Company in writing. No material will be accepted for repair or replacement without written authorization of the Company.

Upon such authorization, and in accordance with instructions of the Company, parts or materials for which replacement is requested shall be returned to the Company for examination, with shipping charges prepaid by the Purchaser. Final determination as to whether a product is actually defective rests with the Company.

This warranty does not extend to any product which has been subjected to misuse, neglect, accident, improper installation, or use in violation of instructions furnished by the Company. The warranty does not extend to, or apply to, any unit which has been repaired or altered outside of the Company's factory by persons not expressly approved by the Company.

THE WARRANTY HEREIN CONTAINED IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY.

THIS KEPCO PRODUCT IS WARRANTED FOR FIVE YEARS!

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E-mail: hq@kepcopower.com • URL: http://www.kepcopower.com

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KEPCO
THE POWER SUPPLIER
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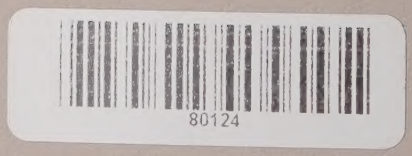

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THE POWER SUPPLIER™
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